

5Capstone Day, May 3, 2018
A Sessions - 9:45-10:45

A1 Economics Moderator: Nayana Bose Katherine Baughman Sarah Yaghmaee Rhea Handa	Humanities 119
A2 Politics Moderator: Tom Kim Rachel Mathews Yijia Yang Bridget Prantzatelli Genna Gores	Humanities 120
A3 Neuroscience Moderator: Melissa Coleman Emilia Hagen Lauren Eisenman Emily Joyce	Humanities 105
A4 Environmental Analysis and Org Biology Moderator: Diane Thomson Tal Caspi Taylor Haas Ilana Weisberg	Humanities 103
A5 Asian-American Studies, Sociology, and PPA/Biology Moderator: Wendy Cheng Kelly Peng Claudia Hernandez Grace Reckers	Humanities 121
A6 Athletics	Humanities Courtyard

B Sessions – 11:00-12:00

B1 Chican@ Latin@ Studies; Latin American & Caribbean Studies; Spanish, Latin American and Caribbean Literatures and Cultures Moderator: Rita Cano Alcalá Prisma Herrera Edith Jaicel Ortega Madeleine Edwards Grace Thieme	Humanities 120
B2 Economics Moderator: Roberto Pedace Charlotte Moore	Humanities 119

Kimaya Gokhale Tova Simonson	
B3 French Studies Moderator: Thierry Boucquey Marielle Epstein Emma McElroy	Humanities 103
B4 Biology Moderator: Findley Finseth Sophie Wolbert Talia Speaker Stephanie Lim Ariel Hurwitz	Humanities 105
B5 Anthropology Moderator: Seo Young Park Rebecca Stewart Lina Mihret Alexis Shoemaker	Humanities 121
B6 Mathematics Moderator: Winston Ou Olivia del Guercio Lauren Stanislaw	Humanities 101
B7 Dance and Theater Moderator: Ronnie Brosterman Rachel Nayer Jennifer Sheasley Allegra Cox	Humanities 104
B8 Athletics	Humanities Courtyard

12:00-1:30 Malott Commons – taco bar for lunch, and chocolate bread pudding, strawberries and cream for dessert!

C Sessions – 1:30-2:30

C1 Feminist, Gender, and Sexuality Studies (FGSS) Moderator: Jih-Fei Cheng Evelyn Gonzalez Laura Kent Emma Snyder	Humanities 119
C2 English Moderator: Michelle Decker Olivia Butze Rose Conlon Lina Purtscher	Humanities 120
C3 Media Studies Moderator: Carlin Wing	Humanities 104

Audrey Hector Mary Jac Heuman Emily Longley Samantha Richards	
C4 Music Moderator: Hao Huang Sarah Yaghmaee Amanda Wen	Balch Auditorium
C5 Art History and Art Conservation Moderator: Juliet Koss Maddie Helland Marielle Epstein	Humanities 105
C6 Politics Moderator: Mark Golub Theresa Faltesek-Gibbon Natalie Johnson Noor Hamdy Melanie Biles	Humanities 121
C7 Humanities Moderator: Andrew Aisenberg Kelly Kwan Emma Herlinger Sheenie Yip Suzanne White Taylor Galla	Humanities 103

D Sessions – 2:45-3:45

D1 Art Moderator: Nancy Macko Marissa Schow Ishbel McCann Julia Chambers Madeline Helland Sarah Bruml Holly Mitchell Justina Goldbeck	Ruth Chandler Williamson Gallery
D2 Chemistry, Biochemistry Moderator: Anna Wenzel Evelyn Zepeda Marlene (Marly) Coe	Humanities 104
D3 Psychology Moderator: Jennifer Ma Kylie Au Mariah Farris Christina Grisanzio Rachel Kaiser	Humanities 119

Faye LaFond Yuqing Lei	
D4 Classics & Religious Studies Moderators: Ellen Finkelppearl and David Roselli Alice Doyle Anyi Wong-Lifton Mandeep Sandhu Deena Woloshin	Humanities 105
D5 English Moderator: Tessie Prakas Andrea Conover Amy Griffin Madeline Sy Bandana Singh	Humanities 120

3:45-5:15 Scripps Tea “Celebrating Our Seniors” Margaret Fowler Garden

5:30-6:30 Seniors vs. Faculty / Staff Soccer Game Tiernan Field

- **Co-Captains Faculty & Staff:** Roberto Pedace and Thierry Boucquey
- **Captain Students:** Erin Matheson
- **Referees:**
- **Announcers:** Lina Mihret
- **Student Roster:** Erin Matheson, Aliza Adler, Helen Thomason, Kelly Peng, Sophie Wolbert, Suki White, alex cheng, Blair Thompson, Marly Coe, Anya Krause, Blair Thompson, Sabrina Gunter, Madeline Sy, Michall Singleton
- **Faculty/Staff Roster:** Amy Marcus-Newhall, Gretchen Edwalds-Gilbert, Roberto Pedace, Jenna Monroy, Dave Smith, Raina Coutin, Thierry Boucquey, Karlos Santos-Coy, Copeland Andrews, Lola Trafecanty, Junelyn Peebles, Linda DeChaine, Katie Karaiscos, Kimberly Drake, Julie Loppacher

A Sessions

9:45-10:45

Session A1 Economics

Humanities 119

Moderator: Nayana Bose

KATHERINE BAUGHMAN

Economics

Can a Celebrity Make a Retail Company? The Impact of Video Endorsements on Nike and Under Armour's Profits and Stock Performances (2010-2017)

What role do celebrity endorsements play in determining the success of sports apparel companies? By gathering original data from Nike and Under Armour's YouTube videos (2010-17), I find that celebrity videos only significantly boost Under Armour's stock price for a few days. Non-celebrity videos negatively affect their stock price within a month. Neither type of video significantly affects Nike's stock price. My results demonstrate the ambiguous effect of endorsements on sports apparel company stock prices.

Advisor: Michael Kuehlwein

Advisor: Sean Flynn

SARAH YAGHMAEE

Economics, Music (double)

Does the H-1B Visa Program Impact Quality of Healthcare?

Recently, the H-1B visa program has been a target of reform. This study explores whether the employment of H-1B physicians in U.S. hospitals has any effect on the quality of healthcare provided. Patient survey scores as well as mortality and readmission rates are used as indicators of quality. The new econometric evidence suggests that patient perception of quality is not influenced by prejudice toward H-1B physicians, but provides inconclusive results for the rate-based outcome variables.

Advisor: Roberto Pedace

Advisor: Nayana Bose

RHEA HANDA

Economics & Politics

A Lesson in Learning: Improving Learning Outcomes in India via Pedagogical Innovation

India has demonstrated considerable progress in improving various aspects of its primary education system. However, student learning outcomes remain consistently low across the country. This paper assesses the impact of a pedagogy that aims to impact learning outcomes, called Teaching at the Right Level (or TaRL), in the districts of five states of India. The quantitative model shows a positive and significant effect of TaRL exposure on learning levels as hypothesized throughout this paper.

Advisor: Nayana Bose

Advisor: Nancy Neiman

9:45-10:45

Session A2 Politics

Humanities 120

Moderator: Tom Kim

RACHEL MATTHEWS

Politics/Public Policy Analysis

When Politics Rule Policy: The Role of Discursive Politics in Wisconsin's Photo Identification Law

Few policies carry more controversy than voter photo identification requirements. These laws require voters to present government-issued ID's, such as a driver's license, state identification card, or a military ID. This thesis seeks to understand how Wisconsin policymakers justified the law against accusations of voter suppression. Analyzing discourse via argumentation policy analysis theory, this paper explores the intersection of politics and policy, outlining how irrational policies are formed, implemented, and evaluated.

Advisor: Professor Vanessa Tyson

Advisor: Professor Thomas Kim

YIJIA YANG

Mathematical Economics and Politics

Have the Chinese Financial Markets Been Manipulated Before the CPC National Congresses?

This paper examined the probability that the Chinese financial markets been manipulated prior to the CPC National Congresses. It used the Monte Carlo simulation to calculate the probability of the weekly and monthly percentage change of the SSE50 Index and the RMB to USD exchange rate prior to the most recent three CPC National Congress. The results indicate a high likelihood of market manipulation prior to the CPC National Congress.

Advisor: Nancy Neiman Auerbach

Advisor: Sean Flynn

BRIDGET PRANZATELLI

Politics

The New Greek Tragedy: Discordance between Greece and the European Union in the Mediterranean Refugee Crisis

After the onset of the Syrian civil conflict, over one million refugees and asylum seekers landed on Greece's shores, and were met with chaos. This research seeks to identify the causes of the mismanagement of this humanitarian crisis. To answer this question, this research will look at common explanations for the mismanagement, and then will argue that it is the relationship between the Greek state and the EU that makes the mismanagement of the crisis so persistent.

Advisor: Nancy Neiman Auerbach

Advisor: Sumita Pahwa

GENNA GORES

Environmental Science, Economics and Politics

The Tourist Destination from Hell: an Exploration of the Multi-Jurisdictional Set-Up of Vista Point Parking Lot.

Vista Point parking lot near the Golden Gate Bridge is a tourist destination that adds traffic to US 101. Despite it being a parking lot, it creates a complex problem because of the overlapping jurisdictions that govern it. Research consisted of 16 stakeholder interviews and various traffic

studies about the congestion problem. This research resulted in an exploration of how government agencies work together to address congestion, and where disconnects occurred during the planning process.

Advisor: Thomas Kim

Advisor: Lance Neckar

9:45-10:45

Session A3 Neuroscience

Humanities 105

Moderator: Melissa Coleman

EMILIA HAGEN

Cognitive Neuroscience

Visualizing Neuroscience: Applying Best Practices When Creating Animations of Difficult Concepts

Few undergraduate-level course materials exist that teach undergraduates the concepts and skills necessary for neuroscience research. One possible solution to the issue of teaching and visualizing the steps of complex processes is animation. This two part study has not only demonstrated that the a research-create-revise cycle is a successful approach to generating cognitive neuroscience teaching materials but also supports the claim that animations are effective teaching tool since they engaging and interesting to undergraduate students.

Advisor: Catherine Reed

LAUREN EISENMAN

Cellular/Molecular Neuroscience

Quantification of Striatal Dopamine Receptors in a Monogamous Bird

Little is known about the neural mechanisms that underlie monogamous behaviors. For this thesis, I studied the role of dopamine in the nucleus accumbens of the monogamous bird the zebra finch (*Taeniopygia guttata*). Using quantitative real-time PCR, I found an upregulation of tyrosine hydroxylase (an enzyme that makes dopamine) in this area in pair-bonded birds that was not present in non-pair bonded birds. This indicates that increase in dopamine levels may promote monogamous behaviors.

Advisor: Dr. Melissa Coleman

9:45-10:45

**Session A4 Environmental Analysis &
Environmental Science, and Organismal Biology**

Humanities 103

Moderator: Diane Thomson

TAL CASPI

Environmental Science

Effects of invasive annuals on soil C and N storage along a coast to inland gradient in southern California

This thesis identifies the key factors controlling regional soil carbon and nitrogen storage. It assesses how composition of invading plant communities, microbial abundance, and soil conditions impact storage capacity in surface soils of adjacent native and invasive habitat types along a coast to inland gradient. It provides a predictive framework for modeling regional nutrient storage that incorporates fine-scale information on soil cation exchange capacity, accurate classification of invasive habitat types, and quantification of bacterial abundance.

Advisor: Wallace Meyer
Advisor: Colin Robins

TAYLOR HAAS

Environmental Analysis

Sustainable End-of-Life Management for Photovoltaic Waste in California

While the solar industry is growing at an unprecedented rate, no system exists for the sustainable management of photovoltaic waste. As a leader in environmental problem solving and a large installer of solar power, California has a responsibility to plan for PV end-of-life. By analyzing existing extended producer responsibility and product stewardship policies in California, my thesis proposes a policy for the sustainable end-of-life management of PV waste within the state.

Advisor: Teresa Sabol Spezio

Advisor: Tanja Srebotnjak

ILANA WEISBERG

Organismal Biology

The Impact of Human Harvest on the Alaskan Gray Wolf (Canis lupus) in Denali National Park and Preserve

Alaskan gray wolves (*Canis lupus*) surrounding Denali National Park are hunted by humans for their fur, for killing livestock, and to decrease predation on ungulate species. I hypothesized that wolf hunting affects DNP wolf populations and, indirectly, moose populations. Using AIC model selection, I compared linear models of moose density and wolf harvest to determine their impact on wolf populations. A significant shift in wolf populations was not shown, but a behavioral shift was suggested.

Advisor: Lucas Hall

Advisor: Elise Ferree

9:45-10:45

**A5 Asian-American Studies, Sociology
& Public Policy Analysis/Biology**

Humanities 121

Moderator: Wendy Cheng

KELLY PENG

Asian American Studies & Biology

Breast Cancer in Chinese American Women: Barriers, Immigrant Enclaves, and Polycyclic Aromatic Hydrocarbons

This thesis examines the interconnectedness of space and race as it manifests in Chinese American community health. Specifically, it explores the ways in which an immigrant enclave, Monterey Park, may facilitate better health outcomes through bilingual and bicultural services, utilization of community spaces, and health insurance status. While Monterey Park may facilitate better health seeking behaviors, it exposes its residents to high indices of polycyclic aromatic hydrocarbons, which have been associated with breast cancer incidence.

Advisor: Gretchen Edwalds-Gilbert

Advisor: Sharon Goto

CLAUDIA HERNANDEZ

Sociology

The Minority Anti-Hero: Race and Behavioral Justification in Power

This thesis examines how race may affect behavioral justification for the minority anti-hero in the Starz series "Power". While previous studies have addressed the ways in which whiteness functions advantageously for popular criminal anti-heroes on television, this paper argues that accessibility of the Black criminal stereotype does not allow men of color to inhabit the same immoral status as white characters without cultural consequence. Implications for media representation and directions for future research are discussed.

Advisor: Dr. Erich Steinman

Advisor: Dr. Gretchen Edwalds-Gilbert

GRACE RECKERS

Public Policy Analysis and Biology

The Impacts of Secure Communities on Immigrant Participation in Los Angeles Health Clinics

This thesis investigates the impacts of the Secure Communities program on how immigrant populations make use of public health clinics. Through interviews with medical providers, statistical analyses of clinic intake datasets, and evaluation of trends in human migration, my research illuminates a concerning decline in rates of health clinic usage by foreign-born patients, suggesting a public health crisis that will only become more pronounced with intensifying anti-immigrant rhetoric and heightened fears of deportation.

Advisor: Nancy Neiman Auerbach

Advisor: Gretchen Edwalds-Gilbert

9:45-10:45

Session A6 Athletics

Humanities Courtyard

B Sessions

11 am – 12 pm

**Session B1 Chican@/Latin@ Studies;
Latin American & Caribbean Studies;**

Humanities 120

Spanish, Latin American and Caribbean Literatures and Cultures

Moderator: Rita Cano Alcalá

PRISMA HERRERA

Chicanx/Latinx Studies and Latin American and Caribbean Studies

An Awakening of Critical Consciousness: Unfurlings of (Re)Memory, Resistance and Resiliency

This thesis does not adhere to “traditional” academic criteria. It is not easily digestible, nor is it something that offers concrete answers. Rather it is a critical understanding of many of my experiences in the last four years. This thesis is a journey. It is by witnessing communities in the US and Latin America that continue to struggle and hope that propels me forward with a renewed sense of consciousness as to where to go.

Advisor: Martha Gonzalez

Advisor: Marina Perez de Mendiola/Cindy Forster

EDITH JAICEL ORTEGA

Dual Politics and Chicana-Latina Studies

California as a “Blue-Print” For Progressive Immigration Reform?: Uncovering Racial Liberalism to Expose Reconfigured Anti-Migrant Hegemony

Using the frames of analysis and language of political whiteness and anti-migrant hegemony, this paper examines the narrative of liberal immigration reformers transforming California’s political landscape within the period of 1994 to 2017. Taken as case studies the following articles of legislation are analyzed: Proposition 187 in 1994, the California Dream Act in 2010, the Trust Act in 2014, up to the present Senate Bill 54 in 2017. The paper finds that while California has experienced a recognizable shift in racial liberalism in rhetoric and legislation, its overall policy continues to work within the framework of anti-migrant hegemony that functions through criminalization and detention. The paper ends with the conclusion, informed by Gonzales’ writing in *Reform without Justice*, that the shift California has experienced is indicative of anti-migrant hegemony reconfiguring itself in changing social and political norms.

Advisor: Gilda Ochoa and Mark Golub

Advisor: Martha Gonzales

MADELEINE EDWARDS

Latin American and Caribbean Studies, Sociology

Houses of the People: Rural Education and Post-Revolutionary Constructions of Citizenship in Mexico 1917-1940

Informed by the text *Fermin* by Manuel Velazquez Andrade (1929) and articles from *El Maestro Rural*, this thesis discusses constructions of citizenship in Mexico after 1917. It addresses the complexities of a state-led educational project which built thousands of schools in rural Mexico during the 1920s and 1930s. This thesis argues that the Socialist School curricula in some ways empowered campesino-indigenous communities but also promoted assimilation and the political platform of the powerful state party.

Advisor: Cindy Forster

Advisor: Miguel Tinker-Salas

GRACE THIEME

Hispanic Studies

Fake News? Latinos, Representación, Ciudadanía y Trump

This thesis uses in-depth analysis of historical Los Angeles Times articles to trace the changing representations of the Latino community in the media. Focusing on themes of patriotism and citizenship, this thesis draws out the subtleties of syntax and semantics that silently influence public opinion. The Zoot Suit Riots and the Chicano Moratorium serve as the main historical backdrop, leading to a concluding exploration of Donald Trump’s campaign rhetoric surrounding immigration and the Latino community.

Advisor: Marina Perez de Mendiola

Advisor: Gabriela Bacsan

11 am – 12 pm
Moderator: Roberto Pedace

Session B2 Economics

Humanities 119

CHARLOTTE MOORE
Economics and French Studies

Does Childcare Accessibility Encourage Entrepreneurship? A Case Study of France

Globally, developed economies show the largest gender gaps in entrepreneurial activity. This analysis examines one potential cause of low rates of female entrepreneurship, work-family policies, specifically in France. The objective of this paper is to test whether or not there is a relationship between entrepreneurship and childcare accessibility in France, and if this relationship exists, to learn about its nature.

Advisor: Roberto Pedace

Advisor: Thierry Boucquey

KIMAYA GOKHALE
Economics

Why Are HPV Vaccination Rates So Low?

Assessing the Rational Disease Dynamics of the HPV Infection and the Relationship Between Cervical Cancer Prevalence and HPV Vaccination, 2008-2014

This thesis attempts to apply the theory of rational disease dynamics to the human papillomavirus by testing whether HPV vaccinations are prevalence elastic. A prevalence elastic relationship suggests that HPV vaccination rates respond positively to increasing prevalence rates of cervical cancer. Prevalence rates are measured both by incidence rates of cervical cancer and by mortality rates of cervical cancer. Data from the NIS-Teen Survey as well as data from the United States Cancer Statistics branch of the Centers for Disease Controls are used to construct a linear regression that controls for income, education levels, proxies for social culture, and proxies for physician access. Incidence was found to have no statistically significant effect on vaccination rates, while mortality rates were found to have a negative relationship with vaccination rates, suggesting that the rational disease dynamics theory does not apply to human papillomavirus and that vaccination rates for HPV are not prevalence elastic.

Advisor: Sean Flynn

Advisor: Roberto Pedace

TOVA SIMONSON
Economics

Analyzing the Effectiveness of Home-Sharing Regulations through Impacts on the Long-Term Housing Market

The growing commercialized usage of home-sharing has caused issues for many cities across the United States concerning long-term housing availability and prices. This paper analyzes the effectiveness of home-sharing regulations in New York City, Portland, Santa Monica, San Francisco, and Denver and discusses their effects on rent, median list price, and inventory of houses. I find the policies have not had a significant impact, even when accounting for lags in the housing market.

Advisor: Roberto Pedace

Advisor: Nayana Bose

11 a.m. - 12:00 p.m.

Session B3 French Studies

Humanities 103

Moderator: Thierry Boucquey

MARIELLE EPSTEIN

Art History & French Studies

All Eyez on Me: The Politics of Power and Visibility in Kehinde Wiley's Spectacular Bodies

Kehinde Wiley is known for his paintings of young black individuals posing in the style of portraits from the Western canon. By contextualizing these paintings within the canon, this thesis questions the function of such references in contemporary art. It examines representations of figures such as Charles I and Louis XIV, and 19th c. French art, revealing how Wiley's historical influences have communicated their own grandiosity to understand the utility of quoting the European canon during these centuries.

Advisor: Juliet Koss

Advisor: France Lemoine

EMMA MCELROY

Environmental Policy/ French

Stagnant Nuclear Energy Policy in France: An Issue of Environmental Justice

My thesis traces policy developments in the nuclear power sector in France, the most dependent country on nuclear energy in the world. The country's particular brand of elitism, their highly centralized, technocratic government, their "green" reputation, and their discriminatory treatment of immigrants, refugees, and low-income communities all complicate this issue. I limit my analysis to nuclear policy changes during the past ten years, under the leadership of Nicolas Sarkozy, François Hollande and presently, Emmanuel Macron.

Advisor: Marc Los Huertos

Advisor: Dalton Krauss

11 am – 12 pm

Session B4 Biology

Humanities 105

Moderator: Findley Finseth

SOPHIE WOLBERT

Organismal Biology

*Risk sensitivity in feeding behavior of wild Anna's Hummingbird, *Calypte anna**

Hummingbird feeding behavior has been studied extensively, however, there is much still to be learned. Previous studies have shown that Rufous and Broad-tailed Hummingbirds are unlikely to take risks while feeding, but this information is unknown for Anna's Hummingbird. This study examines the response of Anna's Hummingbird to variable food rewards and the risk of getting a lower reward. Findings indicate that Anna's Hummingbird is risk-prone, however, the risk presented in this experiment may have been too low to generate a conclusive result.

Advisor: Elise Ferree

Advisor: Lars Schmitz

TALIA SPEAKER

Organismal Biology

Effects of Temperature and Precipitation on Predator-Prey Co-Occurrence in Lake Manyara National Park, Tanzania

Changing environmental conditions impact wildlife populations worldwide. These changes affect predator and prey species differently, altering interspecific interactions that are crucial to ecosystem stability. This study investigates the effects of temperature and precipitation on predator-prey co-occurrence using camera traps in a Tanzanian national park. We found that increased rainfall negatively influenced co-occurrence, while temperature and habitat did not. Our findings indicate that predator-prey co-occurrence is mediated by precipitation, and not by temperature, in this ecosystem.

Advisor: Elise Ferree, Keck Science

Advisor: Christian Kiffner, SFS Tanzania

STEPHANIE LIM

Biology

Assessing loss rates of a developing red tide at a population level

Blooms of the toxic algae *Alexandrium catenella* are the most widespread cause of paralytic shellfish poisoning, which causes paralysis and death to human and animal consumers of contaminated seafood. This study uses a new method to estimate in situ loss rates of a developing inshore bloom at a population level. We propose that *A. catenella* is lost faster than previously measured, which implies higher division rates in order to sustain population growth.

Advisor: Michael Brosnahan

ARIEL HURWITZ

Molecular Biology

*The Role of Eggless, an H3K9 methyltransferase, in the jewel wasp, *Nasonia vitripennis*, on early stage embryogenesis*

This thesis researched protein diversification in rapidly evolving chromatin modeling proteins. Three homologs of *Drosophila* H3K9 methyltransferases, Su(Var)3-9, G9a, and Eggless, were studied using parental RNA interference for their role in *Nasonia vitripennis*, a rising model organism, during early embryogenesis. Despite their significant role in *Drosophila*, these three proteins all displayed protein diversification in *Nasonia*. This work implies future studies need to be done to further understand protein diversification between model organisms.

Advisor: Patrick Ferree

11 am – 12 pm

Session B5 Anthropology

Humanities 121

Moderator: Seo Young Park

REBECCA STEWART

Anthropology

Too Much of a Good Thing: A Look into the Educational Climate of Port Townsend Washington

The concept of choice as it applies to the American educational system has been a topic of intense discussion in recent years. Since the development of this central institution, the freedom of scholastic choice has been an intricate part of the United States' academic landscape.

However, scholars have noted a recent shift as the country has started to take a more neoliberal approach to schooling. In order to better understanding of the concept of choice on a more individualistic level, I conducted a number of personal interviews with parents raising their children in the small rural town of Port Townsend, Washington. My exploration found that while the abundance of academic programs put strain on the educational system on a communal level,

on a personal level the ability to have choices was vital for many families. Educational options are shaped by the needs community they serve, often providing flexibility and protection for families who simply want their students to have the best possible future. Thus, I conclude that while the concept of choice may be debated on a nationwide theoretical level, on a personal level it remains a complex but necessary tool for families to ensure their children's happiness and success.

Advisor: Professor Park

LINA MIHRET

Anthropology

"To Bring All Ethiopians Together": Apolitical Sport, Diaspora Politics, and Mythico-Histories

In this thesis I will be discussing the constraints and mediations on political discourse in the Ethiopian Diaspora in North America. I use the amateur sports federation ESFNA as a site for this analysis, looking both at the online media campaign carried out when a split occurred in the institution and its 2017 tournament. I argue that the political discourse is constrained by how the diaspora continues to (re)define its self in relations to the memories and imaginations of its homeland and its desire to remain a united and distinct community.

Advisor: Lara Deeb

Advisor: Dan Segal

ALEXIS SHOEMAKER

Anthropology

Fear of Change: Autonomous Vehicle Technology and the Automobile as a Cultural Artifact

Autonomous vehicle technology has drawn analytical debates in the mass media about the fundamental effects that it will have on the broader automobile culture in the United States.

Through an ethnographic study of the early perceptions of driverless cars and their perceived impact on automobile culture, I argue that fear emerges as the primary response to this new technology. This inquiry adds layers of meaning to the popular discourse.

Advisor: Seo Young Park

11 am – 12 pm

Session B6 Mathematics

Humanities 101

Moderator: Winston Ou

LAUREN STANISLAW

Mathematics

Graph theory models the connectivity of a collection of points and also has useful applications in areas as diverse as optimization, computer science, and urban planning. In particular, a tree is a graph in which there is only one path from any point to any other point. This thesis provides two different ways of enumerating the number of distinct trees that can be constructed given a certain graph or a certain number of nodes. Cayley's Theorem, as demonstrated by Arnon Avron and Nachum Dershowitz, enumerates the number of distinct labelled and unrooted trees with any given number of nodes. According to Kirchhoff's Theorem, as shown by Arthur Benjamin and Naomi Cameron, any cofactor of the difference between the degree matrix and the adjacency matrix of a graph is equivalent to the number of distinct possible spanning trees of that graph.

11 am – 12 pm

Session B7 Dance and Theater

Humanities 104

Moderator: Ronnie Brosterman

RACHEL NAYER

Dance

Choreographing Conflict: Inspiring Change Through Visual and Physical Representations

This thesis examines how art can stimulate and support personal and social change. It addresses the natural and ever-present existence of conflict and analyzes how using the body as a tool for communication can viscerally represent themes of disagreement and resolution. Parallel to the research component is the original choreographed work, Ecotones. The creative approach and choreography of Ecotones highlights the potential impact of creating, dancing, and watching art about resistance, struggle, and connection.

Advisor: Kevin Williamson

Advisor: Ronnie Brosterman

JENNIFER SHEASLEY

Dance

From Tricks to Art: Using Connectivity, Effort, and Shape to Enhance Expressivity in Aerial Lyra Movement

In this project, common Laban Bartenieff Movement Analysis (L/BMA) elements were identified in the routines of professional lyra (hoop) aerial performers. Once identified, these elements were woven into the movement of an original sequence of aerial skills, and the result was a more artistic performance. This method of observing and implementing L/BMA elements that enhance artistry can be employed by aerialists who are making the transition from learning tricks to performing choreography for audiences.

Advisor: Kevin Williamson

Advisor: Ronnie Brosterman

ALLEGRA COX

Theater

Playing Dead: Happy Endings and Normalizing Queerness in Theatre

This thesis investigates the trends of overall representation of LGBT+ people in commercial American theatre. The findings are that while theatre is seen as a haven for LGBT+ people, the reality is that queer visibility onstage is still low. Additionally, stories of LGBT+ characters are mostly told as tragedies, where the treatment of these characters has not moved beyond punishing them for their sexualities.

Advisor: Mary MacNaughton

Advisor: Giovanni Ortega

11 am – 12 pm

Session B8 Athletics

Humanities Courtyard

12:00-1:30 Malott Commons – taco bar for lunch, and chocolate bread pudding, strawberries and cream for dessert!

C Sessions

1:30 pm – 2:30 pm Session C1 Feminist, Gender, and Sexuality Studies Humanities 119
Moderator: Jih-Fei Cheng

EVELYN GONZALEZ

Feminist, Gender and Sexuality Studies and Media Studies

Why Weight? Zines as Effective Health Communications Tools against Fat Phobia

This thesis aims to deconstruct and critique notions of health that hold at their core a pathologization of fat bodies while increasing access to care that is informed by the realities of bodily difference. This thesis will argue for zines as important health information dissemination tools by mapping and complicating its history, expanding on zines as an artistic and politicized medium, and finally emphasizing its capacity to communicate through alternative knowledges and distribution networks.

Advisor: Jih-Fei Cheng, Carlin Wing, Kim-Trang Tran

LAURA KENT

Feminist, Gender, and Sexuality Studies

Seeing Difference: Visual Representations of the Body of Sara Baartman

This thesis analyzes visual representations of the body of Sara Baartman. Examining 19th century cartoons, the spatial arrangement of her exhibitions, and her dissection and bodily reconstruction for a museum display, I argue that visual knowledge production was crucial to constructing Baartman's body as different from and inferior to Northern European bodies. I interrogate the methods and effects of white colonial visibility, the performative sensorial legacies of enslavement, and the representational stakes of fragmentation.

Advisor: Professor Lisa Cody

Advisor: Professor Piya Chatterjee

EMMA SNYDER

Feminist, Gender, and Sexuality Studies

Precarious Presents and Feminist Futures: Toward a Disability-Centered Genetic Counseling Practice

Down syndrome is the most commonly occurring genetic condition, and yet there exists a great deal of misconception about the value of Down syndrome in society. This thesis explores its construction as a racialized disability category in conversation with reproductive justice, disability justice, and the current norms of practice in genetic counseling. By exploring these histories and presents, this thesis then makes recommendations towards a disability-centered and actively counter-eugenic genetic counseling practice.

Advisor: Jih-Fei Cheng

Advisor: Piya Chatterjee

1:30 pm – 2:30 pm
Moderator: Michelle Decker

Session C2 English

Humanities 120

OLIVIA BUTZE

English with Creative Writing Emphasis

Surrounded by Lights

“Surrounded by Lights” explores the indoctrination of a society into the radical beliefs of Nazism through Greta, a young girl growing up in the Banat region (an outpost of Germany) during World War II. Drawing from her own familial history and secondary sources, the author crafts a piece that explores the molding of a young girl's identity in the wake of her father's disappearance and exposure to Reich-initiated violence.

Advisor: Leila Mansouri

Advisor: Jonathan Petropoulos

ROSE CONLON

English

Toward a New American Lyric: Form as Protest in the Poetry of Claudia Rankine

This thesis investigates Claudia Rankine's challenge to American lyric tradition manifested in "Don't Let Me Be Lonely" and "Citizen" by analyzing each self-proclaimed American lyric's aesthetic disruption of lyric tradition. Focusing on the political viability in poetic form, it argues that Rankine destabilizes a racialized subject-object dialectic in order to mobilize the lyric poem as a future-space for the realization of an ideal politics. Eventually, it proposes a new kind of American lyric: the protest-object.

Advisor: Warren Liu

Advisor: Aaron Matz

LINA PURTSCHER

English

An American Myth in the (Re)making: The Timeless Fantasy Appeal of "The King and I"

This thesis examines the continued fascination of audiences with the classic musical "The King and I" by exploring the American fantasies that the tale employs. Just as in bygone times, America today is still upheld by an idea of the Other. An analysis of the textual and visual elements of both the original 1951 musical and its 2015 revival production reveals the ways in which each alternately reinforces and undermines the fantasy of cultural superiority.

Advisor: Michelle Decker

Advisor: Warren Liu

1:30 pm – 2:30 pm

Session C3 Media Studies

Humanities 104

Moderator: Carlin Wing

AUDREY HECTOR

Media Studies

FOUR SQUARE: A Short Animation based on

The Struggles of Growing Up with A Bounded Racial Identity

For years, animation has been a medium fascinated by people of all ages for its captivating movement of sequential imagery and has even opened discussions involving social issues like race. For my thesis, I used the form of animation to discuss my experiences with a bounded racial identity. A person's bounded racial identity can be described as the recognition of a person's internal individualistic self and the external denying self.

Advisor: Professor T. Kim-Trang Tran

Advisor: Professor Carlin Wing

MARY JAC HEUMAN

Media Studies (Digital/Electronic)

Royalty Free: An Exhibition of User-Made Objects from The Sims

"Royalty Free" is a video game that looks like a gallery, containing a curated selection of custom decor objects made by online "modding" communities for The Sims franchise. It explores the visual style and social-technical activities of gaming communities in the context of avant-garde theories of counter-cinema. It considers a future where 3D computer graphics are an expressive medium, and proposes the game engine as a tool for academic and aesthetic inquiry.

Advisor: T. Kim

Advisor: Nancy Macko

EMILY LONGLEY

Media Studies

Like Me: Generation Z, Social Media, and Self-Branding Practices

Members of Generation Z, those born in the new millennium, have learned to define the self within a Neoliberal and Capitalist framework in which self-branding and ascribing to hegemonic principles appears imperative to one's success. Through a series of filmed interviews, I investigate the relationship female adolescent members of Generation Z have with social media. My thesis explores the evaluative and commodifiable nature of Instagram and its effect on notions of the self.

Advisor: Professor Tran

SAMANTHA RICHARDS

Media Studies

The Construction of Truth in Fiction: An Analysis of the Faux Footage Genre in Television

This paper explores the way that "truth" is constructed in a fictional sphere through visual and narrative references. I draw upon Caetlin Benson-Allott's *Paranormal Spectatorship*, and Jay David Bolter and Richard Grusin's *Remediation* to inform my analysis of these constructions. I look specifically at Roanoke, the sixth season of *American Horror Story*, to provide examples of the way faux footage horror's unique use of the subjective shot constructs the spectator as both a witness and an interrogator, and creates an aesthetic language of truth. While being immersed in the story, viewers are simultaneously invited to consider how the narrative is being constructed, and by whom. This parallax viewing experience suggests a future for the unique challenge of serialized televisual horror.

Advisor: Thomas Connelly

Advisor: Carlin Wing

1:30 pm – 2:30 pm

Session C4 Music

Balch Auditorium

Moderator: Hao Huang

AMANDA WEN

Music Performance

Fantasia Pastorale Hongroise by Franz Doppler

Franz Doppler (1821 – 1883) was a composer and flutist originally from Lviv, Ukraine. Along with his brother, Karl, he performed all throughout Europe before settling in Budapest, Hungary.

Here, he developed a sophisticated ear for Hungarian music, and successfully staged five operas and worked as the chief conductor of the Vienna Court Opera.

Doppler's *Fantasia Pastorale Hongroise* is inspired by the qualities of music written by Gypsies, formally referred to as Romani people. The piece begins with a somber piano introduction to the flute, which takes on a mysterious quality through the flute's lower register and the improvised-like pacing. The middle section features a lilting carnival-esque melody which is reminiscent of conventional salon-style compositions, and is much more playful in mood than the preceding section. Doppler ends the *Fantasia* with a strong and animated climax which has a much heavier Hungarian influence. It builds in tempo, intensity, and complexity before reaching the grand finale.

*A partial presentation of my recital repertoire

Advisor: Rachel Rudich

Advisor: Hao Huang

SARAH YAGHMAEE

Music

Piano Senior Recital

Capriccio in B minor, Op. 76, No. 2

by Johannes Brahms (1833 – 1897)

Ballade No. 3 in A-flat Major, Op. 47

by Frédéric Chopin (1810 – 1849)

24 Preludes, Op. 34 (excerpts)

by Dmitri Shostakovich (1906 – 1975)

II. Allegretto

X. Moderato

XIX. Andantino

1:30 pm – 2:30 pm

**Session C5 Art History &
Art Conservation**

Humanities 105

Moderator: Juliet Koss

MARIELLE EPSTEIN

Art History & French Studies

All Eyes on Me: The Politics of Power and Visibility in Kehinde Wiley's Spectacular Bodies

Kehinde Wiley is known for his paintings of young black individuals posing in the style of portraits from the Western canon. By contextualizing these paintings within the canon, this thesis questions the function of such references in contemporary art. It examines representations of figures such as Charles I and Louis XIV, and 19th c. French art, revealing how Wiley's historical influences have communicated their own grandiosity to understand the utility of quoting the European canon during these centuries.

Advisor: Juliet Koss

Advisor: France Lemoine

1:30 pm – 2:30 pm

Session C6 Politics

Humanities 121

Moderator: Mark Golub

THERESA FALTESEK-GIBBONS

Politics

The Circuit Breaker: Recommendations to Combat Sex Trafficking Between Seattle and Portland

This project examines how anti-sex trafficking efforts in the United States could collaborate across state lines to better adjust to the movement of local sex trafficking economies, as well as provide more effective services to victims of trafficking. Case studies were used to investigate the impact of Washington and Oregon's separate anti-trafficking efforts on the regional sex trafficking circuit, which runs along the Interstate-5 between Seattle and Portland, and form a prescriptive recommendation for policymakers.

Advisor: Mark Golub

Advisor: Vanessa Tyson

NOOR HAMDY

Politics and Middle Eastern Studies

Middle Eastern Refugee Resource Acquisition and Integration in Pomona Valley: Policy Recommendations and Ethnographic Research

This thesis tackles the issues of refugees in the informal resettlement site of the Pomona Valley area. Through interviews with Syrian and Iraqi refugees and American volunteers, this paper will elucidate the challenges and successes of refugees in the key areas of financial, social and linguistic integration to the United States. The research also discusses the relationships between the volunteers and the refugees, as well as the refugees' negotiation of their own transnational belonging.

Advisor: Lara Deeb

Advisor: Sumita Pahwa

MELANIE BILES

Politics & International Relations

High Time for a Replacement: Medical Cannabis as a Substitute for Opioid Analgesics

Opioid addiction has reached an all-time high in America, partially because there is no alternative federally approved, affordable, available analgesic for chronic pain. My thesis examined the role of medical cannabis in the opioid crisis by exploring the effect of medical cannabis laws on opioid prescription rates in an OLS regression. I found that medical cannabis laws produce a statistically significant decrease in opioid prescription rates. I will discuss the specific policy components that would allow medical cannabis policy to be most effective nationwide.

Advisor: Thomas P. Kim

1:30 pm – 2:30 pm

Session C7 Humanities

Humanities 103

Moderator: Andrew Aisenberg

KELLY KWAN

The Humanities Major: Interdisciplinary Studies in Culture (Focus: Human Rights & Social Justice)

The Kindness Factor: Disrupting the Structural Injustices of America's Criminal Justice System
Inspired by words of incarcerated and formerly incarcerated people in California and Denmark, this thesis critically analyzes the American criminal justice system and asks if critiques of the institution can be addressed and improved through the implementation of kindness and compassion within the walls of prison, itself.
Advisor: Marina Perez de Mendiola

SHEENIE YIP
Humanities

Sinofuturism

Sinofuturism is a materialist critique on western techno-orientalist discourses around China in relation to global capitalism and its problematic investments in liberal humanism. Sinofuturism encapsulates numerous cultural phenomena fixated on anxious western projections of China as technological futurity. Marxist Asian American scholarship and the notion of cyborg support this thesis in making visible feminine sino-subjectivities that exist in futures that still remain speculative.

SUKI WHITE
Humanities

Visuality at Women's Colleges

This research explores the visual culture surrounding liberal arts women's colleges. This visuality is dependent on gender, and specifically how femininity is ingrained in the existence of women's colleges. The outdated foundations and the current implications of these college's prohibit the optimization of an inclusive academic environment. Through the architecture, layout, apparel, and online presence, women's colleges capitalize of the femininity of the students, while the students are more apt to prioritize their education than the femininity of their peers.

Advisor: Marina Perez de Mendiola
Advisor: Andrew Aisenberg

TAYLOR GALLA
Humanities: Interdisciplinary Studies of Culture

Dangers of the News(feed): An Exploration into Fake News, Photographic Truth and the Power of Digital Communication on Facebook

This thesis aims to explore the cyclically powerful and ever-expanding communication dynamics unique to Facebook in terms of the entity of truth. Through a theoretical foundation, a contemporary discussion of Facebook's security efforts, and a questioning of the elements of the human psyche that have come to support what Facebook does- I analyze how we've arrived in our current predicament. This thesis also proposes photographic journalism as an avenue of clarity amidst the problematic discourse.

Advisor: Andrew Aisenberg
Advisor: Mark Andrejevic

D Sessions

2:45 pm –3:45 pm
Moderator: Nancy Macko

Session D1 Art

Ruth Chandler Williamson Gallery

MARISSA SCHOW
Art

Pieces: A Critical Look at Life with Pediatric Cancer

As a survivor of pediatric cancer, I constructed this installation in order to illustrate the hopeful side of diagnosis. A replication of my childhood playroom, it consists of unaltered found objects as well as others covered in unfired clay. The cracking layer of unfired clay covering the toys from my childhood reveals the original objects beneath, symbolic of the resiliency of myself and other survivors.

Advisor: Adam Davis

Advisor: Nicole Seisler

ISHBEL MCCANN

Art

Facing the World: The Unapparent Merits of Makeup

Facing the World presents the recordings of makeup routines and narratives of seven women to gain insight into notions of identity and self-care. Although makeup is often used to transform and “perfect” one's face, the project re-envisioning it as an act that promotes self-acceptance and benefits mental health. The project reveals unapparent motivations behind wearing makeup while challenging the assumption that it is a superficial act of vanity.

Advisor: Adam Davis

Advisor: Melanie Nakaue

SARAH BRUML

Fine Arts

Tool Box

This pseudo-educational film, incorporates video in real time to illustrate four different techniques used to help children diagnosed with dyslexia in overcoming their challenges in reading and writing English. When dyslexia was first discovered, doctors wanted to understand how the dyslexic brain functioned differently. They eventually concluded that people who have dyslexia use one side of their brain more than the other. Although these ideas were first conceived between 1870 and 1880, the methods for teaching children with dyslexia have not changed much since then. This project is meant to illustrate the “behind-the-scenes” aspects of what it takes for someone with dyslexia to understand some basic principles governing the English language. The work is meant to show that, although dyslexic brains may perceive differently, hard work and persistence can help alleviate some of the frustration and difficulty that comes with the condition. The work portrays four different techniques: a spelling test; a grammar sheet; a trick for L's and B's; and a repetition list. Each of these challenges was created to help ensure that the problem words would be committed to long-term memory by incorporating all the senses.

Advisor: Nancy Macko

2:45 pm –3:45 pm

Session D2 Chemistry & Biochemistry

Humanities 104

Moderator: Anna Wenzel

EVELYN ZEPEDA

Biochemistry

A Mechanistic Study of a Platinum (IV) Reductive Elimination Reaction

The use of reductive elimination reactions in the formation of carbon-carbon and carbon-hydrogen bonds is currently an area of great interest as the formation of these bonds is fundamental to organic synthesis and critical to the development of pharmaceuticals, agrochemicals, and other organic products. This thesis presents a mechanistic study of a platinum (IV) reductive elimination reaction; the reaction was observed by low-temperature NMR under pseudo first-order kinetic conditions.

Advisor: Nancy Williams

MARLY COE

Biochemistry

Computational Visualization and Analysis of Tryptophan Synthase for NMR Crystallography
Knowing the active site structure of an enzyme is crucial for understanding its mechanism of catalysis. This thesis uses UCSF Chimera software to computationally model the active site of several mutants of the bacterial enzyme tryptophan synthase, as part of a larger method of structural study called NMR crystallography. These data point to a particularly interesting enzyme mutant, Q114N, and reveal UCSF Chimera's effectiveness as a quick, simple tool for predicting low-level molecular dynamics.
Advisor: Mary Hatcher-Skeers

2:45 pm –3:45 pm
Moderator: Jennifer Ma

Session D3 Psychology

Humanities 119

KYLIE AU
Psychology and Legal Studies

Reasonable doubt instructions: Quantitative vs. qualitative and the guilt-presumptive
Derived from California's criminal jury instructions, this study used a 2 (framework: qualitative vs. quantitative) x 2 (presumption: innocence vs. guilt) design challenging the ambiguous nature of our nation's infamous "beyond a reasonable doubt" standard of proof. Results indicate that the numerical anchor found in quantitative instructions did not yield a more consistent understanding and application of the standard and that the presumption of innocence may be inherently guilt-presumptive.

Advisor: Jennifer Groscup
Advisor: Jennifer Ma

MARIAH FARRIS
Psychology

The Differential Impacts of a Restorative Justice Approach Versus a Retributive Approach in School Discipline
This study examined the perceptions of restorative justice versus retributive approaches to school discipline. Previous research demonstrates that traditional punitive discipline often has serious negative consequences for students' success in school. Participants read a story about a disciplinary procedure, then answered questions about their perception of it as a positive or negative form of discipline. Results demonstrated that participants perceived a restorative approach as much more fair than a retributive one.

Advisor: Jennifer Groscup
Advisor: Lahna Catalino

CHRISTINA GRISANZIO
Psychology and Linguistics and Cognitive Science

Effects of Stress on Lexical Retrieval and the Moderating Role of Companion Animal Presence

This study investigated the effects of stress on lexical retrieval and the moderating role of animal presence. Following a 2x2 within-subjects design, adults ages 64-81 completed two lexical retrieval tasks in Non-Stress and Stress conditions, and half of the participants were allowed animal interaction before the tasks. Across animal and non-animal groups, participants responded incorrectly more frequently while under stress. Results indicated that stress reduces confidence and animal presence does not moderate this effect.

Advisor: Deborah Burke

Advisor: Michael Spezio

RACHEL KAISER

Psychology and French

Asking for it: Perceptions of Sexual Assault in the United States and France

This study investigated factors that impact perceptions of sexual assault in the United States and in France, such as alcohol involvement and cost of a date. Participants (N=249) were shown a short vignette involving a rape scenario, and then asked questions about their perception of the situation. Results showed that alcohol use, the cost of a date, and participant country of residence all impacted how participants attributed blame, as well as impacted their overall perception of the scenario.

Advisor: Jennifer Groscup

Advisor: France Lemoine

FAYE LAFOND

Psychology

Men's Receptivity to Mental Health Help Seeking Messages: The Effects of Message Sender Gender and Message Content

The purpose of this study was to explore the impact of the construction and delivery of intervention messages designed to encourage men to seek help for mental health concerns. It was found that the gender of the sender of mental health intervention messages and the inclusion of information about misconceptions regarding therapy did not affect help seeking intentions. However, results indicated that men who conformed strongly to masculine gender role norms were less open to seeking help.

Advisor: Judy LeMaster

Advisor: Stacey Wood

YUQING LEI

Neuroscience; Psychology

Theory of Mind and Valuation During Cooperation

Theory of Mind (ToM) is a complex, multi-dimensional construct that refers to the capacity for people to model others' mental states (Reid, 2002). Despite the clear role of ToM in human interaction, almost all current inquiries into ToM take a spectatorial approach, relying on mere observation followed by evaluation by isolated participants (e.g., the Sally-Anne task, Baron-Cohen, Jolliffe, Mortimore, & Robertson, 1997). However, social cognition fundamentally changes in direct interaction with others (Schilbach, 2013). This thesis summarizes current perspectives on ToM in relation to empathy and relevant tasks that aim to operationalize the construct. A novel, dyadic, interactive cooperative decision-making task affords a new approach to ToM: the Interactive False Belief Teacher-Learner Task (IFBTLT). Computational cognitive

models and hyperscanning methods were applied to understand the cognitive and neural mechanism behind the performance of the task.

Advisor: Michael Spezio

Advisor: Jennifer Ma

2:45 pm – 3:45 pm

**Session D4 Classics &
Religious Studies**

Humanities 105

Moderators: Ellen Finkelpearl and David Roselli

ALICE DOYLE

Classical Studies

"The Essence of Greekness": The Parthenon Marbles and the Construction of Cultural Identity

This thesis explores the relationship between the Classical Greek legacy and today's world by examining the past two hundred years of controversy surrounding Lord Elgin's removal of the Parthenon Marbles from Athens. Since the Marbles were purchased by the British Museum in 1816, they have become symbols of democratic values and Greek cultural identity. Therefore, the fight for their return is about more than just the sculptures—it is about national heritage and identity.

Advisor: David Roselli

Advisor: Jody Valentine

ANYI WONG-LIFTON

Religious Studies

*Multinational Manga Memories: Osamu Tezuka's Postwar Japanese Critique Of Nationalism In
Message To Adolf*

Manga masterpiece Message to Adolf's fictional narrative intertwines the Holocaust, romance, espionage, and friendship in its international World War II-focused narrative. Using theory on nationalism and Japanese memories of WWII, this thesis argues the violence the characters initiate and suffer blurs lines between perpetrator, hero, and victim to critique the power of nationalism. Its message concerning the danger of nationalism is as applicable for global audiences now as when it was published in 1985.

Advisor: Andrew Jacobs

Advisor: Oona Eisenstadt (PO) and Gary Gilbert (CMC)

MANDEEP SANDHU

Dual Biology and Religious Studies

*CRISPR Genetic Editing: Paths for Christian Acceptance and Analysis of In Vivo and In Vitro
Efficiency*

This study analyzes Christian discourse of genetic editing and locates four major concerns: beginning of life, Creator-human relationship, imago Dei, and stewardship. I identify epigenetics, somatic cell, and in vivo genetic editing as important research paths as they can potentially produce techniques that accommodate these concerns. I pursue one of these paths by providing an experimental proposal for an analysis of in vivo and in vitro CRISPR-Cas9 efficiency in regards to on- and off-target rates.

Advisor: Erin Runions

Advisor: Kyle Jay

DEENA WOLOSHIN

Politics and Religious Studies

The World is Ending! Thanks, Iran: A Qualitative Analysis of Apocalyptic Rhetoric and the Joint Comprehensive Plan of Action

This thesis explores the influence of religious lobbies upon the U.S. political process, focusing on both the public and Congress. Specifically, this focuses on the methods of constituency appeal used by two prominent pro-Israel lobbies, CUFI and AIPAC while they were arguing against the Joint Comprehensive Plan of Action in 2015. The thesis argues that AIPAC and CUFI primarily focused on religious rhetoric alluding to the apocalypse to gain public support rather than specific policy issues.

Advisor: Thomas Kim

Advisor: Jamel Velji

2:45 pm- 3:45 pm

Session D5 English

Humanities 120

Moderator: Tessie Prakas

ANDREA CONOVER

English

Post-Wartime vs. Post-War Time: Temporality and Trauma in JACOB'S ROOM, MRS. DALLOWAY, TO THE LIGHTHOUSE, and THE YEARS

Woolf demonstrates the ways in which wartime trauma affects post-war life, from the societal trauma of losing an entire generation in JACOB'S ROOM, to the continuation of wartime beyond the end of the war for traumatized soldiers and anyone whose lives they touch in MRS.

DALLOWAY, to recovery through the creation of art and family ties in TO THE LIGHTHOUSE, to the question of futurity inherent in wartime trauma in THE YEARS.

Advisor: Aaron Matz

AMY GRIFFIN

English

The Song of Monteverdi

Freya diMonteverdi has spent her entire life trying to piece together the story of her family. Interspersed amongst three generations of women, she attempts to answer questions of home and absence through the narrative mediums of mushrooms, the tale of Atlantis, opera and excessive use of footnotes.

This piece was written for the creative writing concentration.

Advisor: Leila Mansouri

Advisor: Adam Novy

MADELINE SY

English

A Riddle in Nine Syllables: The Maternal Body in Sylvia Plath's Maternity Poems

This thesis intervenes in the manner Plath's maternity poems have been discussed by examining the psychological negotiations of identity that occurred while the speaker's in Plath's poems are pregnant with child. The poems "Metaphors," "You're" and "Nick and the Candlestick" each

feature subtle imagery that not only illustrate the speaker's preoccupation with her own pregnancy but also constructs a metaphorical representation of the maternal body as the locus for the mother's negotiation of identity.

Advisor: Warren Liu

Advisor: Aaron Matz

BANDANA SINGH

English

"Your unthought of Harry": Political Legitimacy and the Economy of Honor in Shakespeare's Henriad

Shakespeare's *Henriad* tracks the shifts in leadership and kingly identity, from the dissolution of Richard's divine authority to Henry V's ascension and success. As divine authority recedes, honor appears more frequently and is viewed by Prince Hal as an external commodity which can be accumulated. Henry V marks the cementation of honor as a commodity with economic value, allowing for the establishment of Henry's political legitimacy. I examine this political and ideological transition, connecting Richard's divine right to Hal's construction of an economy of honor.

Advisor: Tessie Prakas

Advisor: Tom Koenigs

3:45 p.m. – 5 p.m. Scripps Tea “Celebrating Our Seniors” Margaret Fowler Garden

5:30 p.m. – 6:30 p.m. Seniors vs. Faculty / Staff Soccer Game Tiernan Field House

Co-Captains Faculty & Staff: Thierry Boucquey and Roberto Pedace

Captain Students: Erin Matheson

• **Referees:**

• **Announcers:** Lina Mihret

• **Student Roster:** Erin Matheson, Aliza Adler, Helen Thomason, Kelly Peng, Sophie Wolbert, Suki White, alex cheng, Blair Thompson, Marly Coe, Anya Krause, Blair Thompson, Sabrina Gunter, Madeline Sy, Michall Singleton

• **Faculty/Staff Roster:** Amy Marcus-Newhall, Gretchen Edwalds-Gilbert, Roberto Pedace, Jenna Monroy, Dave Smith, Raina Coutin, Thierry Boucquey, Karlos Santos-Coy, Copeland Andrews, Lola Trafecanty, Junelyn Peeples, Linda DeChaine, Katie Karaiscos, Kimberly Drake, Julie Loppacher